

MAR 07 2005
 SC131
 PROPERTY & TRADING OFFICE
 No persons are required to

+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

(use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

Application Number	10/720,361
Filing Date	November 24, 2003
First Named Inventor	Peter F. Corbett et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	112056-0141

[illegible][illegible]

**Examiner
Signature**

Виктор. Вонз

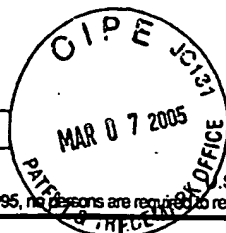
Date Considered

6/12/06

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

+



+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number	10/720,361
Filing Date	November 24, 2003
First Named Inventor	Peter F. Corbett et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	112056-0141

(use as many sheets as necessary)

Sheet	2	of	2
-------	---	----	---

[illegible]

**Examiner
Signature**

Bruce P. Bonzo

Date Considered

6/12/06

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

+

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 6

Complete if Known

Application Number	10/720,361
Filing Date	November 24, 2003
First Named Inventor	Peter F. Corbett et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	112056-0141

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
BPP	1	Re. 34,100		Hartness	10-13-1992	
	2	3,876,978		Bossen et al.	04-08-1975	
	3	4,092,732		Ouchi	05-30-1978	
	4	4,201,976		Patel	05-06-1980	
	5	4,205,324		Patel	05-27-1980	
	6	4,375,100		Tsuji et al.	02-22-1983	
	7	4,467,421		White	08-21-1984	
	8	4,517,663		Imazeki et al.	05-14-1985	
	9	4,667,326		Young et al.	05-19-1987	
	10	4,688,221		Nakamura et al.	08-18-1987	
	11	4,722,085		Flora et al.	01-26-1988	
	12	4,755,978		Takizawa et al.	07-05-1988	
	13	4,761,785		Clark et al.	08-02-1988	
	14	4,775,978		Hartness	10-04-1988	
	15	4,796,260		Schilling et al.	01-03-1989	
	16	4,817,035		Timsit	03-28-1989	
	17	4,825,403		Gershenson et al.	04-25-1989	
	18	4,837,680		Crockett et al.	06-06-1989	
	19	4,847,842		Schilling	07-11-1989	
	20	4,849,929		Timsit	07-18-1989	
	21	4,849,974		Schilling et al.	07-18-1989	
	22	4,849,976		Schilling et al.	07-18-1989	
	23	4,870,643		Bultman et al.	09-26-1989	
	24	4,899,342		Potter et al.	02-06-1990	
	25	4,989,205		Dunphy, Jr. et al.	01-29-1991	
	26	4,989,206		Dunphy, Jr. et al.	01-29-1991	
	27	5,077,736		Dunphy, Jr. et al.	12-31-1991	
	28	5,088,081		Farr	02-11-1992	
	29	5,101,492		Schultz et al.	03-31-1992	
	30	5,128,810		Halford	07-07-1992	
	31	5,148,432		Gordon et al.	09-15-1992	
	32	5,163,131		Row et al.	11-10-1992	
	33	5,166,936		Ewert et al.	11-24-1992	
	34	5,179,704		Jibbe et al.	01-12-1993	
	35	5,202,979		Hillis et al.	04-13-1993	

Examiner
Signature

Bryce P. Bogen

Date
Considered

6/12/06

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <h2 style="text-align: center; margin: 10px 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 10px 0;">(use as many sheets as necessary)</p>		<h3 style="text-align: center; margin: 0;">Complete If Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/720,361</td> </tr> <tr> <td>Filing Date</td> <td>November 24, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Peter F. Corbett et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>Not yet assigned</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>112056-0141</td> </tr> </table>		Application Number	10/720,361	Filing Date	November 24, 2003	First Named Inventor	Peter F. Corbett et al.	Group Art Unit	Not yet assigned	Examiner Name	Not yet assigned	Attorney Docket Number	112056-0141
Application Number	10/720,361														
Filing Date	November 24, 2003														
First Named Inventor	Peter F. Corbett et al.														
Group Art Unit	Not yet assigned														
Examiner Name	Not yet assigned														
Attorney Docket Number	112056-0141														
Sheet	2	of	6												

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
B P 15	36	5,208,813		Stallmo	05-04-1993	
	37	5,210,860		Pfeffer et al.	05-11-1993	
	38	5,218,689		Holle	06-08-1993	
	39	5,233,618		Glider et al.	08-03-1993	
	40	5,235,601		Stallmo et al.	08-10-1993	
	41	5,237,658		Walker et al.	08-17-1993	
	42	5,257,367		Goodlander et al.	10-26-1993	
	43	5,274,799		Brant et al.	12-28-1993	
	44	5,305,326		Solomon et al.	04-19-1994	
	45	5,351,246		Blaum et al.	09-27-1994	
	46	5,410,667		Belsan et al.	04-25-1995	
	47	5,537,567		Galbraith et al.	07-16-1996	
	48	5,579,475		Blaum et al.	11-26-1996	
	49	5,623,595		Bailey	04-22-1997	
	50	5,805,788		Johnson	09-08-1998	
	51	5,812,753		Chiariotti	09-22-1998	
	52	5,862,158		Baylor et al.	01-19-1999	
	53	5,884,098		Mason, Jr.	03-16-1999	
	54	6,092,215		Hodges et al.	07-18-2000	
	55	6,138,201		Rebalski	10-24-2000	
	56	6,158,017		Han et al.	12-05-2000	
	57	6,223,300	B1	Gotoh	04-24-2001	
	58	6,532,548	B1	Hughes	03-11-2003	
	59	6,581,185	B1	Hughes	06-17-2003	

Examiner Signature	Bruce P. Bongo	Date Considered	6/12/06
-----------------------	---	--------------------	--

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>		Complete If Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/720,361</td> </tr> <tr> <td>Filing Date</td> <td>November 24, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Peter F. Corbett et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>Not yet assigned</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>112056-0141</td> </tr> </table>		Application Number	10/720,361	Filing Date	November 24, 2003	First Named Inventor	Peter F. Corbett et al.	Group Art Unit	Not yet assigned	Examiner Name	Not yet assigned	Attorney Docket Number	112056-0141
Application Number	10/720,361														
Filing Date	November 24, 2003														
First Named Inventor	Peter F. Corbett et al.														
Group Art Unit	Not yet assigned														
Examiner Name	Not yet assigned														
Attorney Docket Number	112056-0141														
Sheet	3	of	6												

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BPB	60	ANVIN, PETER H, "The Mathematics of RAID 6," December 2004	
	61	Auspex 4Front NS2000, System Architecture, Network-Attached Storage For a New Millennium, Auspex Engineering Technical Report 24, January 1999	
	62	BESTAVROS, AZER, ET AL., <i>Reliability and Performance of Parallel Disks</i> , Technical Memorandum 45312-891206-01TM, AT&T, Bell Laboratories, Department 45312, Holmdel, NJ, December 1989	
	63	BITTON, DINA, <i>Disk Shadowing</i> , Proceedings of the 14 th VLDB Conference, LA, CA (1988)	
	64	BULTMAN, DAVID L., <i>High Performance SCSI Using Parallel Drive Technology</i> , In Proc. BUSCON Conf., pages 40-44, Anaheim, CA, February 1988	
	65	CHEN, PETER ET AL., <i>Two Papers on RAIDs</i> , Technical Report, CSD-88-479, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley (1988)	
	66	CHEN, PETER M., ET AL., <i>An Evaluation of Redundant Arrays of Disks Using an Amdahl 5890</i> , Performance Evaluation, pp. 74-85, 1990 – check to see if exact same copy as one in WAFL	
	67	CHEN, PETER M., ET AL., Maximizing Performance in a Striped Disk Array, Proc. 1990 ACM SIGARCH 17th Intern. Symp. on Comp. Arch., Seattle, WA, May 1990, pp. 322-331.	
	68	CHEN, PETER M., ET AL., <i>RAID: High Performance, Reliable Secondary Storage</i> , ACM Computing Surveys, 26(2):145-185, June 1994	
	69	CHERVENAK, ANN L., <i>Performance Measurement of the First RAID Prototype</i> , Technical Report UCB/CSD 90/574, Computer Science Division (EECS), University of California, Berkeley, May 1990	
	70	COPELAND, GEORGE, ET AL., "A Comparison of High-Availability Media Recovery techniques," in Proc. ACM-SIGMOD Int. Conf. Management of Data, 1989.	
	71	COURTRIGHT II, WILLIAM V., ET AL., <i>RAIDframe: A Rapid Prototyping Tool for RAID Systems</i> , Computer Science Technical Report CMU-CS97-142, Carnegie Mellon University, Pittsburgh, PA 15213, June 4, 1997	
✓	72	EVANS <i>The Tip of the Iceberg: RAMAC Virtual Array – Part I</i> , Technical Support, March 1997, pp. 1-4	
Examiner Signature		Bryce P. Bonzo	Date Considered
			6/12/06

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>		Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/720,361</td> </tr> <tr> <td>Filing Date</td> <td>November 24, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Peter F. Corbett et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>Not yet assigned</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>112056-0141</td> </tr> </table>		Application Number	10/720,361	Filing Date	November 24, 2003	First Named Inventor	Peter F. Corbett et al.	Group Art Unit	Not yet assigned	Examiner Name	Not yet assigned	Attorney Docket Number	112056-0141
Application Number	10/720,361														
Filing Date	November 24, 2003														
First Named Inventor	Peter F. Corbett et al.														
Group Art Unit	Not yet assigned														
Examiner Name	Not yet assigned														
Attorney Docket Number	112056-0141														
Sheet	4	of	6												

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BPPB	73	GIBSON, GARTH A., ET AL., <i>Coding Techniques for Handling Failures in Large Disk Arrays</i> , Technical Report UCB/CSD 88/477, Computer Science Division, University of California, (July, 1988.)	
	74	GIBSON, GARTH A., ET AL., <i>Failure Correction Techniques for Large Disk Arrays</i> , In Proceedings Architectural Support for Programming Languages and Operating Systems, Boston, Apr. 1989, pp 123-132	
	75	GIBSON, GARTH A., ET AL., <i>Strategic Directions in Storage I/O Issues in Large-Scale Computing</i> , ACM Computing Survey, 28(4):779-93, December 1996	
	76	GOLDICK, JONATHAN S., ET AL., <i>Multi-resident AFS: An Adventure in Mass Storage</i> , In Proceedings of the 1995 USENIX Technical Conference, pages 47-58, January 1995	
	77	GRAHAM, SUSAN L., ET AL., <i>Massive Information Storage, Management, and Use</i> , (NSF Institutional Infrastructure Proposal), Technical Report No. UCB/CSD 89/493, January 1989	
	78	GRAY, JIM ET AL., <i>Parity striping of disc arrays: Low-Cost Reliable Storage with Acceptable Throughput</i> . In Proceedings of the 16th Very Large Data Bases Conference, pages 148--161, Brisbane, Australia, 1990	
	79	GRIMES, DW MARTINEZ, <i>Two Dimensional Parity Error Correction Procedure</i> , IBM Technical Disclosure Bulletin 2686-2689, October 1982	
	80	GRIMES, DW MARTINEZ, <i>Vertical Parity Generator for Two Dimensional Parity</i> , IBM Technical Disclosure Bulletin 2682-2685, October 1982	
	81	HELLERSTEIN, LISA, ET AL., <i>Coding Techniques for Handling Failures in Large Disk Arrays</i> . In Algorithmica Vol. 2, Nr. 3, 182-208 (1994)	
	82	HUGHES, JAMES, ET AL., <i>High Performance RAIT</i> , <u>Tenth NASA Goddard Conference on Mass Storage Systems and Technologies and Nineteenth IEEE Symposium on Mass Storage Systems</u> , Adelphi, Maryland, USA, April 2002	
	83	JOHNSON, THEODORE, ET AL, <i>Tape Group Parity Protection</i> , IEEE Symposium on Mass Storage, pp. 72-79, March 1999	
	84	KATZ, RANDY H. ET AL., <i>Disk System Architectures for High Performance Computing</i> , undated	
	85	KENT, JACK ET AL., <i>Optimizing Shadow Recovery Algorithms</i> , <i>IEEE Transactions on Software Engineering</i> , 14(2):155-168, Feb. 1988.	

Examiner Signature		Date Considered	6/19/06
-----------------------	--	--------------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box →



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/720,361
		Filing Date	November 24, 2003
		First Named Inventor	Peter F. Corbett et al.
		Group Art Unit	Not yet assigned
		Examiner Name	Not yet assigned
		Attorney Docket Number	112056-0141
Sheet	5	of	6

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BPB	86	KIM, MICHELLE Y., <i>Synchronized Disk Interleaving</i> , IEEE Transactions on Computers, C-35(11):978-988, November 1986	
	87	KIM, MICHELLE, ET AL., <i>Asynchronous Disk Interleaving Approximating Access Delays</i> , IEEE Transactions on Computers, vol. 40, no.7, July 1991, pp. 801-810.	
	88	LAWLOR, F. D., <i>Efficient Mass Storage Parity Recovery Mechanism</i> , IBM Technical Disclosure Bulletin 24(2):986-987, July 1981	
	89	LEE, EDWARD K., ET AL., <i>RAID-II: A Scalable Storage Architecture for High-Bandwidth Network File Service</i> , Technical Report UCB/CSD 92/672, (February 1992)	
	90	LI, DON, ET AL., <i>Authors' Reply</i> , IEEE Transactions on Communications, 46:575, May 1998.	
	91	LIVNY, MIRON, ET AL., <i>Multi-Disk Management Algorithms</i> , In Proceedings of the ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS), pages 69- 77, Banff, Alberta, Canada, May 1987	
	92	MEADOR, WES E., <i>Disk Array Systems</i> , Proceedings of COMPCON, 1989, pp. 143-146	
	93	NG, SPENCER, ET AL., <i>Trade-Offs Between Devices and Paths in Achieving Disk Interleaving</i> , IEEE International Symposium on Computer Architecture, 1988, pp. 196-201	
	94	NG, SPENCER, <i>Some Design Issues of Disk Arrays</i> , Proceedings of COMPCON Spring '89, pages 137-42. IEEE, 1989	
	95	PARK, ARVIN, ET AL., <i>Providing Fault Tolerance In Parallel Secondary Storage Systems</i> , Technical Report CS-TR-057-86, Princeton, November, 1986	
	96	PATEL, ARVIND M., <i>Adaptive Cross-Parity (AXP) Code for a High-Density Magnetic Tape Subsystem</i> , IBM Technical Disclosure Bulletin 29(6):546-562, November 1985	
	97	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , Technical Report, CSD-87-391, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley (1987)	
✓	98	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , SIGMOD International Conference on Management of Data, Chicago, IL, USA, 1-3 June 1988, SIGMOD RECORD (17)3:109-16 (Sept. 1988)	

Examiner Signature	Bryce P. Bonga	Date Considered	6/19/06
--------------------	----------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Complete if Known</th> </tr> <tr> <td style="width: 50%;">Application Number</td> <td>10/720,361</td> </tr> <tr> <td>Filing Date</td> <td>November 24, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Peter F. Corbett et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>Not yet assigned</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>112056-0141</td> </tr> </table>		Complete if Known		Application Number	10/720,361	Filing Date	November 24, 2003	First Named Inventor	Peter F. Corbett et al.	Group Art Unit	Not yet assigned	Examiner Name	Not yet assigned	Attorney Docket Number	112056-0141
Complete if Known																	
Application Number	10/720,361																
Filing Date	November 24, 2003																
First Named Inventor	Peter F. Corbett et al.																
Group Art Unit	Not yet assigned																
Examiner Name	Not yet assigned																
Attorney Docket Number	112056-0141																
Sheet	6	of	6														

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
B P B	99	PATTERSON, DAVID A., ET AL., <i>Introduction to Redundant Arrays of Inexpensive Disks (RAID)</i> . In IEEE Spring 89 COMPCON, San Francisco, IEEE Computer Society Press, February 27 - March 3, 1989, pp. 112-117	
	100	STORAGESUITE "Performance Without Compromise: The Virtual Storage Architecture," catalogue, 1997	
	101	REDDY, A. L. NARASIMHA, ET AL., <i>An Evaluation of Multiple-Disk I/O Systems</i> , IEEE Transactions on Computers, Vol. 38, No 12, December 1989, pp. 1680 - 1690.	
	102	SCHULZE, MARTIN E., <i>Considerations in the Design of a RAID Prototype</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkley, August 25, 1988	
	103	SCHULZE, MARTIN., ET AL., <i>How Reliable is a RAID?</i> , Proceedings of COMPCON, 1989, pp. 118-123	
	104	SHIRRIFF, KENNETH W., <i>Sawmill: A Logging File System for a High-Performance RAID Disk Array</i> , CSD-95-862, January 1995	
	105	STONEBRAKER, MICHAEL, ET AL., <i>The Design of XPRS</i> , Proceedings of the 14 th VLDB Conference, LA, CA (1988)	
	106	TANABE, TAKAYA, ET AL., <i>Redundant Optical Storage System Using DVD-RAM Library</i> , IEEE Symposium on Mass Storage, pp. 80-87, March 1999	
	107	TEKROM – "About RAID 6"	
	108	TWETEN, DAVID, <i>Hiding Mass Storage Under UNIX: NASA's MSS-H Architecture</i> , IEEE Symposium on Mass Storage, pages 140-145, May 1990	
109	WILKES, JOHN, ET AL., <i>The HP AutoRAID hierarchical storage system</i> , ACM Transactions on Computer Systems, February 1996, vol. 14, pp. 108-36		

Examiner Signature		Date Considered	6/12/06
-----------------------	--	--------------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.